

1/22 #5



OICE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/829,251

DATE: 02/07/2002

TIME: 11:00:51

Input Set : N:\Crf3\RULE60\09829251.raw

Output Set: N:\CRF3\02072002\I829251.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Simmons, Laura C.

6 Yansura, Daniel G.

8 (ii) TITLE OF INVENTION: Methods and Compositions for Secretion of
9 Heterologous Proteins

11 (iii) NUMBER OF SEQUENCES: 23

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Genentech, Inc.

15 (B) STREET: 460 Point San Bruno Blvd

16 (C) CITY: South San Francisco

17 (D) STATE: California

18 (E) COUNTRY: USA

19 (F) ZIP: 94080

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: patin (Genentech)

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/09/829,251

C--> 29 (B) FILING DATE: 09-Apr-2001

30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: 08/397,303

34 (B) FILING DATE:

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Fitts, Renee A.

38 (B) REGISTRATION NUMBER: 35,136

39 (C) REFERENCE/DOCKET NUMBER: P889

41 (ix) TELECOMMUNICATION INFORMATION:

42 (A) TELEPHONE: 415/225-1489

43 (B) TELEFAX: 415/952-9881

44 (C) TELEX: 910/371-7168

46 (2) INFORMATION FOR SEQ ID NO: 1:

48 (i) SEQUENCE CHARACTERISTICS:

49 (A) LENGTH: 88 bases

50 (B) TYPE: nucleic acid

51 (C) STRANDEDNESS: single

52 (D) TOPOLOGY: linear

54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

57 GCATGTCTAG AATTATGAAR AARAYATHG CNTTYCTNCT NGCNTCNATG 50

60 TTYGTNTTYT CNATHGCTAC AAACGCGTAT GCCACTCT 88

ENTERED

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64 (2) INFORMATION FOR SEQ ID NO: 2:
66 (i) SEQUENCE CHARACTERISTICS:
67 (A) LENGTH: 36 bases
68 (B) TYPE: nucleic acid
69 (C) STRANDEDNESS: single
70 (D) TOPOLOGY: linear
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
75 TTCAGCACCG CACAGAGTGG CACACGCGTT TGTAGC 36
79 (2) INFORMATION FOR SEQ ID NO: 3:
81 (i) SEQUENCE CHARACTERISTICS:
82 (A) LENGTH: 82 bases
83 (B) TYPE: nucleic acid
84 (C) STRANDEDNESS: single
85 (D) TOPOLOGY: linear
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
90 CTAGAATTAT GAAAAAGAAT ATCGCATTTT TTCTTGCATC TATGTTCGTT 50
93 TTTTCTATTG CTACAAACGC GTATGCCACT CT 82
97 (2) INFORMATION FOR SEQ ID NO: 4:
99 (i) SEQUENCE CHARACTERISTICS:
100 (A) LENGTH: 75 bases
101 (B) TYPE: nucleic acid
102 (C) STRANDEDNESS: single
103 (D) TOPOLOGY: linear
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
108 GTGGCATACG CGTTTGTAGC AATAGAAAAA ACGAACATAG ATGCAAGAAG 50
111 AAATGCGATA TTCTTTTTC TAATT 75
115 (2) INFORMATION FOR SEQ ID NO: 5:
117 (i) SEQUENCE CHARACTERISTICS:
118 (A) LENGTH: 67 bases
119 (B) TYPE: nucleic acid
120 (C) STRANDEDNESS: single
121 (D) TOPOLOGY: linear
123 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
126 CTAGAATTAT GAAGAAGAAT ATCGCATTTT TTCTTGCATC TATGTTCGTT 50
129 TTTTCTATTG CTACAAA 67
133 (2) INFORMATION FOR SEQ ID NO: 6:
135 (i) SEQUENCE CHARACTERISTICS:
136 (A) LENGTH: 67 bases
137 (B) TYPE: nucleic acid
138 (C) STRANDEDNESS: single
139 (D) TOPOLOGY: linear
141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
144 CGCGTTTGTA GCAATAGAAA AAACGAACAT AGATGCAAGA AGAAATGCCA 50
147 TATTCTTCTT CATAATT 67
151 (2) INFORMATION FOR SEQ ID NO: 7:
153 (i) SEQUENCE CHARACTERISTICS:
154 (A) LENGTH: 79 bases
155 (B) TYPE: nucleic acid
156 (C) STRANDEDNESS: single

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157 (D) TOPOLOGY: linear
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
162 CGCGTATGCC CGGACACCAG AAATGCCTGT TCTGGAAAAC CGGGCTGCTC 50
165 AGGGCGATAT TACTGCACCC GCGGGTGCT 79
169 (2) INFORMATION FOR SEQ ID NO: 8:
171 (i) SEQUENCE CHARACTERISTICS:
172 (A) LENGTH: 71 bases
173 (B) TYPE: nucleic acid
174 (C) STRANDEDNESS: single
175 (D) TOPOLOGY: linear
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
180 CCGCCGGGTG CAGTAATATC GCCCTGAGCA GCCC GGTTTT CCAGAACAGG 50
183 CATTCTGGT GTCCGGGCAT A 71
187 (2) INFORMATION FOR SEQ ID NO: 9:
189 (i) SEQUENCE CHARACTERISTICS:
190 (A) LENGTH: 83 bases
191 (B) TYPE: nucleic acid
192 (C) STRANDEDNESS: single
193 (D) TOPOLOGY: linear
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
198 GCATGTCTAG AATTATGAAR AARAAATHG CNNTTCTTCT TGCATCTATG 50
201 TTCGTTTTT CTATTGCTAC AAACGCGTAT GCC 83
205 (2) INFORMATION FOR SEQ ID NO: 10:
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH: 27 bases
209 (B) TYPE: nucleic acid
210 (C) STRANDEDNESS: single
211 (D) TOPOLOGY: linear
213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
216 AGTGGCATAC GCGTTTGTAG CAATAGA 27
220 (2) INFORMATION FOR SEQ ID NO: 11:
222 (i) SEQUENCE CHARACTERISTICS:
223 (A) LENGTH: 79 bases
224 (B) TYPE: nucleic acid
225 (C) STRANDEDNESS: single
226 (D) TOPOLOGY: linear
228 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
231 CTAGAGGTTG AGGTGATTTT ATGAAAAAAA ACATCGCATT TCTTCTTGCA 50
234 TCTATGTTTCG TTTTTTCTAT TGCTACAAA 79
238 (2) INFORMATION FOR SEQ ID NO: 12:
240 (i) SEQUENCE CHARACTERISTICS:
241 (A) LENGTH: 79 bases
242 (B) TYPE: nucleic acid
243 (C) STRANDEDNESS: single
244 (D) TOPOLOGY: linear
246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
249 CGCGTTTGTA GCAATAGAAA AAACGAACAT AGATGCAAGA AGAAATGCCA 50
252 TGTTTTTTTT CATAAAATCA CCTCAACCT 79
256 (2) INFORMATION FOR SEQ ID NO: 13:

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258 (i) SEQUENCE CHARACTERISTICS:

259 (A) LENGTH: 506 bases

260 (B) TYPE: nucleic acid

261 (C) STRANDEDNESS: double

262 (D) TOPOLOGY: linear

264 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

267 GAATTCAACT TCTCCATACT TTGGATAAGG AAATACAGAC ATGAAAAATC 50
 270 TCATTGCTGA GTTGTTATTT AAGCTTGCCC AAAAAGAAGA AGAGTCGAAT 100
 273 GAACTGTGTG CGCAGGTAGA AGCTTTGGAG ATTATCGTCA CTGCAATGCT 150
 276 TCGCAATATG GCGCAAAATG ACCAACAGCG GTTGATTGAT CAGGTAGAGG 200
 279 GGGCGCTGTA CGAGGTAAAG CCCGATGCCA GCATTCTTGA CGACGATACG 250
 282 GAGCTGCTGC GCGATTACGT AAAGAAGTTA TTGAAGCATC CTCGTCAGTA 300
 285 AAAAGTTAAT CTTTTCAACA GCTGTCATAA AGTTGTCACG GCCGAGACTT 350
 288 ATAGTCGCTT TGTTTTTATT TTTTAATGTA TTTGTAATA GTACGCAAGT 400
 291 TCACGTAAAA AGGGTATCTA GAGGTTGAGG TGATTTTATG AAAAAGAATA 450
 294 TCGCATTCTT TCTTGCATCT ATGTTCTGTT TTTCTATTGC TACAAATGCC 500
 297 TATGCA 506

301 (2) INFORMATION FOR SEQ ID NO: 14:

303 (i) SEQUENCE CHARACTERISTICS:

304 (A) LENGTH: 23 amino acids

305 (B) TYPE: amino acid

306 (D) TOPOLOGY: linear

308 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

310 Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
 311 1 5 10 15
 313 Ser Ile Ala Thr Asn Ala Tyr Ala
 314 20 23

316 (2) INFORMATION FOR SEQ ID NO: 15:

318 (i) SEQUENCE CHARACTERISTICS:

319 (A) LENGTH: 90 bases

320 (B) TYPE: nucleic acid

321 (C) STRANDEDNESS: double

322 (D) TOPOLOGY: linear

324 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

327 TCTAGAGGTT GAGGTGATTT TATGAAAAAG AATATCGCAT TTCTTCTTGC 50
 330 ATCTATGTTT GTTTTTTCTA TTGCTACAAA YGCSTATGCM 90

334 (2) INFORMATION FOR SEQ ID NO: 16:

336 (i) SEQUENCE CHARACTERISTICS:

337 (A) LENGTH: 78 bases

338 (B) TYPE: nucleic acid

339 (C) STRANDEDNESS: double

340 (D) TOPOLOGY: linear

342 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

345 TCTAGAATTA TGAAAAAGAA TATCGCATTT CTTCTTGCAT CTATGTTCTG 50
 348 TTTTCTATT GCTACAAACG CGTATGCM 78

352 (2) INFORMATION FOR SEQ ID NO: 17:

354 (i) SEQUENCE CHARACTERISTICS:

355 (A) LENGTH: 78 bases

356 (B) TYPE: nucleic acid

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357 (C) STRANDEDNESS: double
358 (D) TOPOLOGY: linear
360 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
363 TCTAGAATTA TGAAGAAGAA TATTGCGTTC CTTCTTGCCT CTATGTTTGT 50
366 CTTTCTCTATA GCTACAAACG CGTATGCM 78
370 (2) INFORMATION FOR SEQ ID NO: 18:
372 (i) SEQUENCE CHARACTERISTICS:
373 (A) LENGTH: 78 bases
374 (B) TYPE: nucleic acid
375 (C) STRANDEDNESS: double
376 (D) TOPOLOGY: linear
378 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
381 TCTAGAATTA TGAAGAAGAA TATCGCATTT CTTCTTGCAT CTATGTTTCGT 50
384 TTTTCTCTATT GCTACAAACG CGTATGCM 78
388 (2) INFORMATION FOR SEQ ID NO: 19:
390 (i) SEQUENCE CHARACTERISTICS:
391 (A) LENGTH: 78 bases
392 (B) TYPE: nucleic acid
393 (C) STRANDEDNESS: double
394 (D) TOPOLOGY: linear
396 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
399 TCTAGAATTA TGAAAAAAGAA CATCGCATTT CTTCTTGCAT CTATGTTTCGT 50
402 TTTTCTCTATT GCTACAAACG CGTATGCM 78
406 (2) INFORMATION FOR SEQ ID NO: 20:
408 (i) SEQUENCE CHARACTERISTICS:
409 (A) LENGTH: 78 bases
410 (B) TYPE: nucleic acid
411 (C) STRANDEDNESS: double
412 (D) TOPOLOGY: linear
414 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
417 TCTAGAATTA TGAAAAAAGAA CATCGCATTT CTTCTTGCAT CTATGTTTCGT 50
420 TTTTCTCTATT GCTACAAACG CGTATGCM 78
424 (2) INFORMATION FOR SEQ ID NO: 21:
426 (i) SEQUENCE CHARACTERISTICS:
427 (A) LENGTH: 78 bases
428 (B) TYPE: nucleic acid
429 (C) STRANDEDNESS: double
430 (D) TOPOLOGY: linear
432 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
435 TCTAGAATTA TGAAGAAAAA CATCGCTTTT CTTCTTGCAT CTATGTTTCGT 50
438 TTTTCTCTATT GCTACAAACG CGTATGCM 78
442 (2) INFORMATION FOR SEQ ID NO: 22:
444 (i) SEQUENCE CHARACTERISTICS:
445 (A) LENGTH: 78 bases
446 (B) TYPE: nucleic acid
447 (C) STRANDEDNESS: double
448 (D) TOPOLOGY: linear
450 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
453 TCTAGAATTA TGAAAAAGAA CATAGCGTTT CTTCTTGCAT CTATGTTTCGT 50

VERIFICATION SUMMARY

DATE: 02/07/2002

PATENT APPLICATION: US/09/829,251

TIME: 11:00:52

Input Set : N:\Crf3\RULE60\09829251.raw

Output Set: N:\CRF3\02072002\I829251.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]